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PAPER

APPLICATION NO. ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE FIRST NAMED INVENTOR Hua Autumn Liu 10/613,103 29250-001018/US 4245 07/07/2003 32498 7590 04/06/2007 **EXAMINER** CAPITOL PATENT & TRADEMARK LAW FIRM, PLLC ATTN: JOHN CURTIN RUSSELL, WANDA Z P.O. BOX 1995 PAPER NUMBER **ART UNIT** VIENNA, VA 22183 2609 SHORTENED STATUTORY PERIOD OF RESPONSE MAIL DATE **DELIVERY MODE**

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

04/06/2007

	Application No.	Applicant(s)	
Office Action Summary	10/613,103	LIU, HUA AUTUMN	
	Examiner	Art Unit	
	Wanda Z. Russell	2609	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence address -	•
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period to really within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a will apply and will expire SIX (6) MO , cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communical BANDONED (35 U.S.C. § 133).	·
Status			
1) Responsive to communication(s) filed on			
·	action is non-final.		
3) Since this application is in condition for allowa	nce except for formal mat	ters, prosecution as to the merits	is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.). 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-15 is/are pending in the application			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.		,	
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10)⊠ The drawing(s) filed on <u>07 July 2003</u> is/are: a)	⊠ accepted or b)□ obje	cted to by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	ion is required if the drawing	(s) is objected to. See 37 CFR 1.121	1(d).
11) The oath or declaration is objected to by the Ex	aminer. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		} 119(a)-(d) or (f).	
1. Certified copies of the priority documents2. Certified copies of the priority documents		application No	
3. Copies of the certified copies of the prior		· ·	
application from the International Bureau	•	10001104 III IIII0 1141101141 Otago	
* See the attached detailed Office action for a list		received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	• ——	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		s)/Mail Date nformal Patent Application	
Paper No(s)/Mail Date	6) Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-25 are rejected under 35 U.S.C. 102(a) as being anticipated by Carpini et al. (Pub No. US 2003/0063613).

Regarding **claim 1**, Carpini et al. disclose a system (Title) for re-routing traffic (Abstract, line 8) from a bi-directional (3, 21-Fig. 1,) Label Switched Path (LSP) ([0038], line 1) comprising:

an originating network device (Fig. 1) operable to:

re-route traffic (Abstract, line 8) traveling along a bi-directional LSP (3-Fig. 1) in a forward direction to an alternate path (21-Fig. 1, and [0039], lines 1-3) in the forward direction; and

transmit a switch over message (signal, [0047], lines 15-19) along the alternate path in the forward direction to a merging network device (9-Fig. 1) responsible for re-routing traffic traveling along the bi-directional LSP in a backward direction to the alternate path in the backward direction (21-Fig. 1, bi-directional, and [0039], lines 1-6).

Regarding claim 2, Carpini et al. disclose the system of claim 1, wherein the originating network device is further operable to transmit a second message, along the

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alternate path in the forward direction, to the merging network device to allow traffic to travel along the bi-directional LSP in the backward direction when a failure is no longer detected (3, 21-Fig. 1, bi-directional, and "restoration", [0047], lines 1-5).

Regarding **claim 3**, Carpini et al. disclose the system of claim 1, wherein the originating network device is a multi-protocol label switched (MPLS) device ([0034], line 4).

Regarding **claim 4**, Carpini et al. disclose the system of claim 1 wherein the bidirectional LSP is comprised of an LSP carrying traffic in the forward direction and another LSP carrying traffic in the backward direction ([0044], lines 1-9, and [0048], lines 1-3).

Regarding **claim 5**, Carpini et al. disclose the system of claim 1 further comprising a merging network device operable to receive the switch over message and to re-route traffic traveling along the bi-directional LSP in the backwards direction to the alternate path in the backwards direction based on the switch over message (21-Fig. 1, bi-directional, and [0039], lines 1-3).

Regarding **claim 6**, Carpini et al. disclose the system of claim 5, wherein, the merging network device is further operable to:

receive a second message ("restoration", [0047], lines 1-5) along the alternate path in the forward direction; and

allow traffic to travel along the bi-directional LSP in the backward direction when a failure is no longer detected based on said second message (21-Fig. 1, bi-directional).

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Regarding claim 7, Carpini et al. disclose the system of claim 5 wherein the merging network device is a MPLS device ([0034, line 4).

Regarding **claim 8**, Carpini et al. disclose a merging network device (9-Fig. 1) operable to:

receive a switch over message (signal, [0047], lines 15-19); and re-route traffic traveling along a bi-directional LSP in a backwards direction to an alternate path in the backwards direction based on the switch over message (21-Fig. 1, bi-directional).

Regarding **claim 9**, Carpini et al. disclose the device as in claim 8 further operable to:

receive a second message ("restoration", [0047], lines 1-5) along the alternate path in the forward direction; and

allow traffic to travel along the bi-directional LSP in the backward direction (21-Fig. 1, bi-directional) when a failure is no longer detected based on said second message.

Regarding claim 10, Carpini et al. disclose the device of claim 8 wherein, the merging network device is a MPLS device ([0034], line 4).

Regarding **claim11-15**, they are method claims of claims 1, 2, 4, 8, and 9 respectively. Therefore they are rejected for the same reason above.

Regarding **claim16-17**, they are method claims of claims 8, and 9 respectively. Therefore they are rejected for the same reason above.

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Regarding claim 18, Carpini et al. disclose a system (Title) for re-routing traffic (Abstract, line 8) comprising:

an originating network device (Fig. 1) comprising:

means (routers, 7-Fig. 1) for re-routing traffic traveling along a bidirectional LSP in a forward direction to an alternate path (21-Fig. 1, and [0039], lines 1-3) in the forward direction; and

means (9-Fig. 1) for transmitting a switch over message along the alternate path in the forward direction to a merging network device (9-Fig. 1) responsible for re-routing traffic traveling along the bi-directional LSP in a backward direction to the alternate path in the backward direction (21-Fig. 1, bi-directional, and [0039], lines 1-6).

Regarding **claim 19**, Carpini et al. disclose the system of claim 18, wherein the originating network device further comprises means (9-Fig. 1, and [0047], lines 1-5) for transmitting a second message ("restoration", [0047], line 1), along the alternate path in the forward direction, to the merging network device to allow traffic to travel along the bi-directional LSP in the backward direction when a failure is no longer detected (3, 21-Fig. 1, bi-directional, and [0051], lines 1-5).

Regarding **claim 20**, Carpini et al. disclose the system of claim 18 wherein the bidirectional LSP is comprised of an LSP carrying traffic in the forward direction and another LSP carrying traffic in the backward direction ([0044], lines 1-9, and [0048], lines 1-3).

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Regarding **claim 21**, Carpini et al. disclose the system of claim 1 further comprising a merging network device which comprises means (71-Fig. 4, [0054], lines 4-12) for receiving the switch over message (signal, [0047], lines 15-19) and means for re-routing traffic traveling along the bi-directional LSP in the backwards direction to the alternate path in the backwards direction based on the switch over message (21-Fig. 1, bi-directional, and [0039], lines 1-3).

Regarding **claim 22**, Carpini et al. disclose the system of claim 21, wherein, the merging network device further comprises:

means (71-Fig. 4, [0054], lines 4-12) for receiving a second message ("restoration", [0047], line 1) along the alternate path in the forward direction; and means (71-Fig. 4, [0054], lines 4-12) for allowing traffic to travel along the bidirectional LSP in the backward direction when a failure is no longer detected based on said second message (3, 21-Fig. 1, bi-directional).

Regarding claim 23, Carpini et al. disclose a merging network device (9-Fig. 1) comprising:

means (71-Fig. 4, [0054], lines 4-12) for receiving a switch over message (signal, [0047], lines 15-19); and

means (71-Fig. 4, [0054], lines 4-12) for re-routing traffic traveling along a bidirectional LSP in a backwards direction to an alternate path in the backwards direction based on the switch over message (21-Fig. 1, bi-directional).

Regarding **claim 24**, Carpini et al. disclose the device as in claim 23 further comprising:

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means (71-Fig. 4, [0054], lines 4-12) for receiving a second message ("restoration", [0047], line 1) along the alternate path in the forward direction; and means (71-Fig. 4, [0054], lines 4-12) for allowing traffic to travel along the bidirectional LSP in the backward direction when a failure is no longer detected based on said second message (21-Fig. 1, bi-directional).

Regarding **claim 25**, Carpini et al. disclose a system (Title) for re-routing traffic (Abstract, line 8) comprising:

means (7-Fig. 1) for re-routing traffic traveling along a bi-directional LSP in a forward direction to an alternate path in the forward direction;

means (7, 9, 23-Fig. 1) for transmitting a switch over message (signal, [0047], lines 15-19), along the alternate path in the forward direction, for re-routing traffic traveling along the bi-directional LSP in a backward direction (3, 21-Fig. 1, bi-directional);

means (9-Fig. 1) for receiving the switch over message; and means for rerouting traffic traveling along the bi-directional LSP in a backwards direction to the same alternate path in the backwards direction based on the switch over message (21-Fig. 1, bi-directional).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wanda Z. Russell whose telephone number is (571) 270-1796. The examiner can normally be reached on Monday-Thursday 9:00-6:00 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eliseo Ramos-Feliciano can be reached on (571) 272-7925. The fax phone number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

WZR

SUPERVISORY PATENT EXAMINER

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